



Communicator

September 2013

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SEPARS Report
News You Can Lose
and Much More!





The Communicator



**SURREY
AMATEUR RADIO CLUB**

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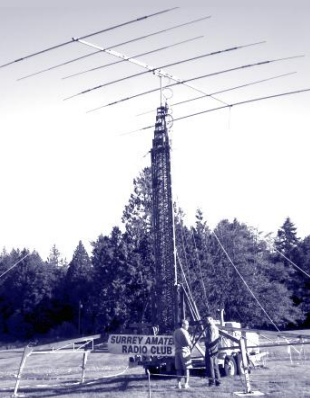
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VIA THE WEB
www.ve7sar.net

The SARC Communicator is published monthly for members of the Surrey Amateur Radio Club.

SARC maintains a website at www.ve7sar.net that includes club history, meetings, news and other information.



June Monthly Meeting Minutes

Minutes of the Annual General Meeting

June 12, 2013

The meeting was called to order at 1900 hr by President John Brodie VA7XB who declared that as the Club's last meeting of the season, this would be the Annual General Meeting for the fiscal year which ended May 31st. Only members in good standing would be allowed to vote on motions, and those elected would commence their duties immediately following the meeting.

After Bill Little VA7ZBL confirmed that 24 members present constituted a quorum, John VA7XB asked for a motion to approve the proposed agenda - moved by Chris Cowx VA7CWX, seconded by Joyce Robertson VA7JCE, and the motion carried.

With 2012 AGM minutes having been previously circulated by email, provided on the website and included in the May 1st Communicator, a motion to approve the 2012 AGM minutes was made Al Neufeld VE7CDC, seconded by Arthur Siemens VE7SIE and the motion carried.

Scott Hawrelak VE7HA presented in a series of slides the annual financial statements for the chequing and savings accounts, as audited by Paulette Schouten VE7VPE. John VA7XB then did the same for the Lottery account, stating that the account was now fully spent with a minimal balance retained to keep the account open. After a few clarifying questions and responses provided by Scott and John, a motion was made by Kjeld VE7GP to approve the financial statements, seconded by Al Neufeld VE7CDC, and the motion carried unanimously. Later a motion was made and approved to send Paulette a

CLUB EXECUTIVE 2013-2013

PRESIDENT

John Brodie VA7XB

VICE PRESIDENT

Brett Garrett VE7GM

SECRETARY

Vacant

TREASURER

Scott Hawrelak VE7HA

DIRECTORS

John Schouten VE7TI
(Communicator Editor)

George Merchant
VE7QH (Repeaters)

Bill Little VA7ZBL
(Membership)

Rob Gilchrist VE7CZV
(Net Manager)

Bill Gipps VE7XS

SEPAR LIAISON

Kelvin Hall VA7KPH

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The Canadian Arctic

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QRM
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RAC News
September SARC Calendar

	SEPARS Net	SARC Net
1 st Tuesday	Drew VA7DRW Jay VE7OFH Standby	Drew VA7DRW
2 nd Tuesday	Dixie VA7DIX Alan VA7BIT Standby	Jinty VA7JMR
3 rd Tuesday	Rob VE7CZV	Anton VE7SSD
4 th Tuesday	Peter VE7PGX Dixie VA7DIX Standby	John VA7XB
5 th Tuesday	Jinty VA7JMR	Bill VE7XS
Want a turn at Net Control? Contact the SARC Net Manager VE7CZV @ separ.net		

SARC hosts an Amateur Radio net each Tuesday evening at 8 PM. Please tune in to the VE7RSC repeater at 147.360 MHz (+600 KHz) Tone=110.9, also accessible on IRLP node 1736 and Echolink node 496228. On UHF we operate a repeater on 443.775MHz (+5Mhz) Tone=110.9 and EchoLink Node 1737

\$100 gift of appreciation for her voluntary services on the financial audit.

After a short coffee break, John Schouten VE7TI reviewed proposed changes to the Club bylaws prepared jointly by himself and George Merchant VE7QH. The recommendations had been forwarded earlier to the membership by way of the AGM announcement, a website notice and an item in the Communicator. After some discussion, a motion to adopt the changes as recommended was made by John Schouten VE7TI, seconded by Al Neufeld VE7CDC and the motion carried unanimously. It was explained that the bylaw revisions, now in effect, would have 8 directors elected and those directors would subsequently select the officers (President, Vice President, Secretary and Treasurer).

Anton James VE7SSD conducted the election of directors. The existing slate of 8 officers (excluding Kelvin Hall VA7KPH, who stood down) willing to stand for the 8 director positions was presented by Anton - 4 of these to be elected for a 1-year term and 4 others to be elected for a 2-year term in order to initiate the staggered terms, with subsequent elections to have all directors elected for a 2-year term. Anton called 3 times for nominations from the floor and, with none forthcoming, a motion was made by Kjeld Frederiksen VE7GP and seconded by Jinty Reid VA7JMR to accept by acclamation these 8 nominations as the newly elected directors. The vote carried unanimously. John VE7TI thanked Kelvin VA7KPH for his dedicated service as director over the past year.

Elected for a 1-year term were: John Brodie VA7XB, Brett Garrett VE7GM, Bill Gipps VE7XS and Bill Little VA7ZBL.

Elected for a 2-year term were George Merchant VE7QH, Rob Gilchrist VE7CZV, John Schouten VE7TI and Scott Hawrelak VE7HA.

The agenda moved on to Committee and Other Reports, included at the end of these minutes.

- Membership (Bill VA7ZBL)
- Foxhunt (Anton VE7SSD)
- SEPARS (Kelvin VA7KPH)

- Repeater (George VE7QH)
- Operator Training (John VA7XB)
- Communicator (John VE7TI)
- Website (Hiu VE7YXG)
- Inventory (Anton VE7SSD)
- RAC (Bill VE7XS)
- Equipment (Rick VE7GMO)

The following announcements were made by John VA7XB:

- Abbreviated membership Lists are available on request from Bill VA7ZBL.
- Orders for SARC name badges will be taken at the September meeting.
- Cruise-in and Raffle Tickets: All members should have a book of tickets to sell or, if not, should obtain one. Cash and stubs must be returned before the draw date of Sept 7th at the Cruise-in. They may be returned on Friday mornings at the ABC breakfast get-together throughout the summer. Volunteers will be requested later to help out at the Cruise-in SARC/SEPAR/LARA table and assist with event communications.
- The Tuesday night club net and the Friday breakfast will continue on an informal basis throughout the summer.
- The post-meeting social at McDonalds following monthly meetings will continue as long as there is sufficient interest - 15574 Fraser Highway.
- The next club meeting will take place on Sept. 11th, at which time task assignments will be made, followed by an in-house swap meet.
- Club inventory will be reviewed over the summer to identify items for disposal, sale or loan-out to members.
- Pat Speer VA7XE has generously donated a SONY CT 260 Sound Bar System to the club, which will be raffled off in the fall .
- A club visit to the repeater site has been deferred until the required changes have been made to the ventilation system.

(Continued on page 4)

DOWN THE LOG...

SARC Monthly Meetings

2nd Wednesday (Sept-Jun)
1900 hrs local at the Emergency Management BC PREOC,
14275 96th Avenue, Surrey, BC

Weekly Club Breakfast

Friday at 0800 local
ABC Country Restaurant at
600 - 7380 King George Blvd.
Surrey

SARC Net

Tuesday at 2000 hrs local
on 147.360 MHz (+) Tone=110.9

SEPARS Net

Tuesday at 19:30 hrs local
on 147.360 MHz (+) Tone=110.9

Announcements & News

SEPARS Monthly Workshop
Third Thursday, 1900-2130 local
14923-64th Ave, next to Firehall
#9, Surrey.

SEPARS Training

Fourth Saturday, 0830 local,
Firehall #1, 88 & 132nd Street,
Surrey

On the Web

ve7sar.net

Between newsletters, watch your e-mail for announcements of events, monthly meetings and training opportunities. These announcements can also be found on our web page, or via:

Twitter

[@ve7sar](https://twitter.com/ve7sar)

Photos
Web Albums

Coming Up In September: Another In-House Swap Meet



Welcome to the start of another year of SARC meetings!

At the first meeting on Wednesday, September 11th, the Surrey Club executive will be providing a glimpse of the year ahead. There are plans for meetings geared to both novices and experts alike. Please come with your ideas and become involved in club activities, you will enjoy the experience and learn about the many facets of the hobby.

After the formal meeting, we will provide an opportunity to buy, sell or trade your surplus amateur radio goodies. SARC's last in-house swap meet was so successful that we are doing it again. Bring your items and some cash to the meeting to sell or swap with other members. Some of our members are on limited incomes so price 'em low or just give 'em away and make room for more junk!



Note that over the summer, SARC has gone over its inventory of items accumulated over several decades and has many boxes of items to dispose of.

A few of the choice items will be sold at bargain-basement prices but the majority will be given away. Anything left is destined for the dump, so here's your chance to get some no-longer-needed stuff at little or no cost. Books, radios, power supplies, accessories, tubes, antennas and so forth - you will find them all and more.

The SARC executive has also approved a program to provide some of our surplus equipment on long-term loan to members. There are limitations and rules that will be explained further at the meeting.

Hope to see you there.

(Continued from page 3)

- Marvin Hunt, an honorary member of SARC and Surrey Councilor has recently been elected as MLA and has advised he plans to attend our Field Day event.

Field Day Planning

Brett Garrett VE7GM reviewed several important FD matters related to FD operators, meals, volunteer needs, items to bring, etc. He noted that a N1MM refresher course will take place on Monday June 17th at Fred VE7IO's place. Scheduled operators are invited to attend during the day on June 17th for familiarization with the radios. Equipment take-down in preparation for FD is to take place on June 18th.

Final Words and Adjournment

John VA7XB thanked the Executive for their outstanding support during the year with the comment that he felt privileged to have such a competent and expert team working on behalf of the Club. There being no further business, the meeting was adjourned at 2100 hr.

Recorded by John VA7XB

Langley Cruise-In

At least 12 volunteers are needed from SARC and SEPAR.

This year the event organizers have promised us four strategically-located booths to sell raffle tickets, to promote our respective organizations and to provide radio communication with the security and emergency services.

Parking passes are available but will have to be shared amongst volunteers, who are encouraged to car-pool. This is our only fund-raising event of the year, combined with the opportunity to show what amateur radio has to offer as a community service.

Please contact sarc@ve7sar.net if you can help out.



From Nauticapedia

John M. MacFarlane VA7PX

Early Amateur Radio In The Canadian Arctic

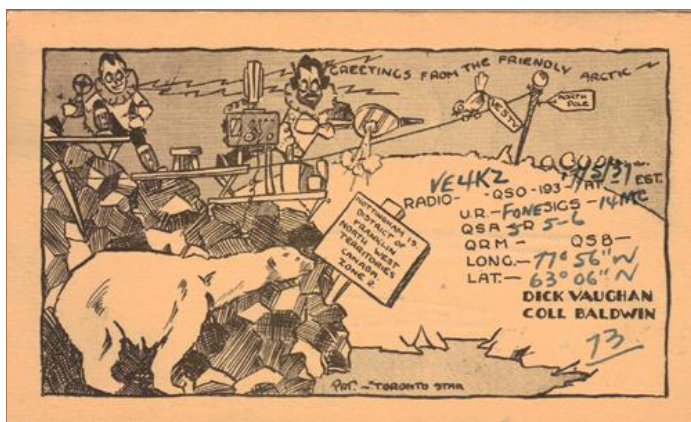
Amateur Radio (aka Ham Radio) has been a way for almost 100 years for citizens to communicate wirelessly to distant locations. The hobby is still thriving and providing opportunities for experimentation in radio electronics and the operation of shortwave radio stations. In the 1930s people working in Canada's Arctic often brought their amateur radio skills and equipment north with them so that they could relieve the isolation by contacting other radio operators around the world.

Recently a ham radio colleague, Bill Little (VA7ZBL), came across a collection of QSL cards from an old operator (Art J. Cook, VE4KZ, who lived in Calgary Alberta) that contained some from the far north of Canada. In their own way they give a glimpse into the history of the region and some of the people who worked there before the Second World War.

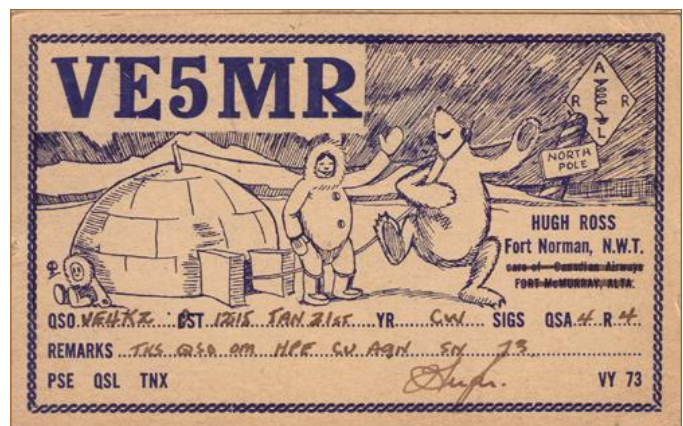
For those not familiar with Ham Radio - a QSL card is personalized postcard-sized acknowledgement exchanged by amateur radio operators to confirm the radio contact (or QSO in radio jargon) with each other. These cards from the Arctic would have been highly prized by the recipient as ham operators were very rare in those days - and even today there are not many of them active.

This station, operated by Dick Vaughan and Coll Baldwin was located on Nottingham Island. This location (Inuktitut: Tujjaat) is an uninhabited island in the Qikiqtaaluk Region of Nunavut, Canada. It is located in Hudson Strait, just north of the entrance into Hudson Bay. A weather station was constructed on the island in 1884. In 1927, an airfield was constructed as part of a program to monitor ice in Hudson Bay. The island became uninhabited in October 1970 as Inuit residents migrated to larger towns, primarily Cape Dorset. Presumably the operators of the radio station were staffing the weather station.

Each radio call sign was unique to a licence holder. The call sign was synonymous with the licenced holder. Successful contacts were later confirmed with a QSL card, sent by mail, as confirmation or proof of the contact. These cards are highly prized by radio operators, and these cards from Canada's Arctic were and still are very rare.



Radio Station VE5TV (1937), located at Nottingham Island, Northwest Territories (in the former District of Franklin.)
(Photo from the MacFarlane collection)



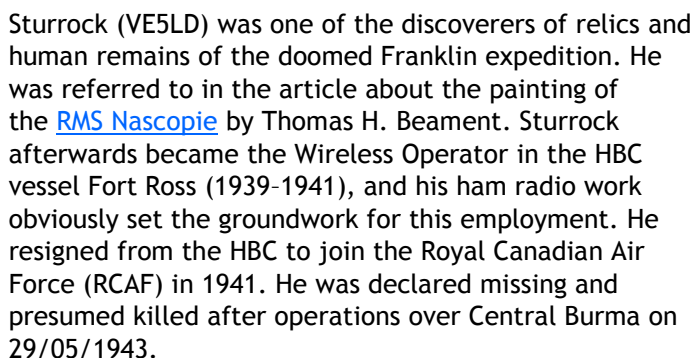
VE5MR (1936) located at Fort Norman, Northwest Territories. (Photo from the MacFarlane collection)

Congratulations to new ham and SARC member Brian Birch, who passed his basic exam in July and has been assigned the callsign VA7BUS.



VE5LD (1937) located at Gjoa Haven, on King William Island. *(Photo from the MacFarlane collection)*

VE5LD (1937) was operated by Donald Graham Sturrock (1914-1943), who was an Apprentice Clerk with the Hudson's Bay Company at Gjoa Haven 1935-1938. He also operated the Hudson's Bay Company radio station, call sign CZ2L, on 69 meters. He notes on his QSL card that his station is a very low power, 10 watts, and brags that he has [contacted stations all over the world](#).



Gjoa Haven, (Inuktitut: Uqsuqtuuq). The name Gjoa Haven is from the Norwegian and was named by polar explorer Roald Amundsen after his ship Gjoa. Permanent settlement at Gjoa Haven started in 1927 with a Hudson's Bay Company outpost.

References:

- http://en.wikipedia.org/wiki/Nottingham_Island
- <http://en.wikipedia.org/wiki/Tulita>
- http://en.wikipedia.org/wiki/Old_Crow,_Yukon
- http://en.wikipedia.org/wiki/Gjoa_Haven,_Nunavut
- http://www.gov.mb.ca/chc/archives/hbca/biographical/s/sturrock_donald-g.pdf

Author's Note: My thanks to Bill Little for the cards. I am also grateful to George Duddy for additional information included in the article.

Rob VE7CZV still needs an auto-tuner for his HF rig, specifically for 80m.

If you have or know of one that is available at a good price, please contact Rob via robgil@telus.net



Radio-Active Jinty Reid VA7JMR Kjeld Frederiksen VE7GP

Kjeld and his wife Inge both hail from Denmark where they were born and raised and spent the first part of their lives. Kjeld was raised on a small farm in Southern Denmark. He was an active soccer player. After leaving school he was apprenticed to a carpenter and obtained his journeyman's ticket. After this Kjeld went on to college where he became an architect. Romance finally tracked him down when he met and became engaged to Inge.

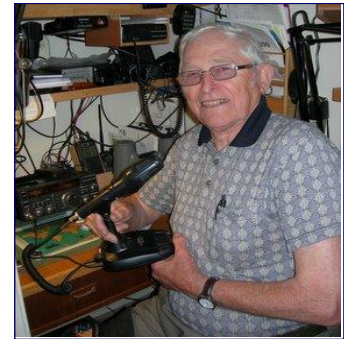
He then completed 2 years of national service in the Danish Army, reaching the rank of corporal. Once he finished his service in the army he taught architecture for a short while and then worked in the building industry for 3 years. Throughout the ensuing years he built 2 homes and he and Inge had 3 children; 2 boys and 1 girl. Kjeld started his own construction business.

In spite of knowing no English, in 1968, at the age of 33 he, along with his wife and children, emigrated to Canada. After living in a motel in Surrey for a few months Kjeld and Inge purchased a house in Burnaby. There he worked as a carpenter for 3 years until, along with his neighbour, establishing their own business. After this venture Kjeld worked for a Langley building company, estimating and designing farm buildings.

He relocated to Delta where he and his wife bought a house. Around this time he became interested in CB radio but lost interest due to the bad language used on that medium at that time. This time he started his own construction business after 8 years in Langley. He was introduced by a friend to ham radio in the late 1970's and eventually obtained his ham radio license. Kjeld now has a small radio shack with a Yaesu FT 890 radio and has installed a Kenwood 450 in his motor home.

Although Kjeld and Inge have visited Denmark several times they now travel in their motor home mostly visiting California, Alaska and Colorado. In 1981 Kjeld joined

S.A.R.C. and has been a member ever since and is one of the oldest members. Kjeld states that he has attended all the Field Days, except one when he was in Alaska, and is presently doing installation of radio equipment in the SEPAR trailer for the June 2013 Field Day.



Eight years ago Kjeld and Inge moved into their present home on an acreage tucked away in a picturesque part of rural South Surrey. The house is divided into an upper and lower floor with his son Peter living upstairs with his partner and 2 dogs, "Freckles" and "Violetta", and Kjeld and Inge living in the lower level.

His son Soren now lives in Colorado and his daughter Henriette lives in Tsawwassen. Kjeld and Inge have 3 grandchildren. Kjeld shares his love of fish with his son and they have built two large ponds in the spacious and beautiful garden (*see photo below*). This is his second hobby.

Inge is active in their church ladies auxiliary and although not involved in Ham Radio, has enjoyed the friendships made through that activity. Kjeld and Inge are planning on taking a bus tour of Nova Scotia this fall for 10 days.

Looking into the future, he plans on continuing to enjoy his home and family relationships as well as ham radio,

his fish, and perhaps slowing down as he has had 3 heart surgeries. Kjeld always has a smile and is kind and hard working. He has a keen sense of justice and is not afraid to speak out when he see something is not right. Just for everyone's information his name is pronounced "Keld". Thanks for all you do for SARC Kjeld.





Tech Talk John Schouten VE7TI

On a budget... An SDR Receiver and an Inexpensive Noise Filter

I had been experimenting with an inexpensive \$10 Chinese TV [dongle](#) as an SDR receiver (*click on the photo or search eBay for DVB T +DAB FM and you'll find several*) and some free software readily available on the Internet. It is a fascinating experiment and I was picking up not only the FM broadcast band but cell phone frequencies and a number of other, as yet unidentified, stations. I know there are hams using this gear for HF monitoring but I have not yet had the time to explore that avenue.

I was getting ready to write an article about my experiences when I came upon the following in a blog. I don't think I can do any better so here it is:

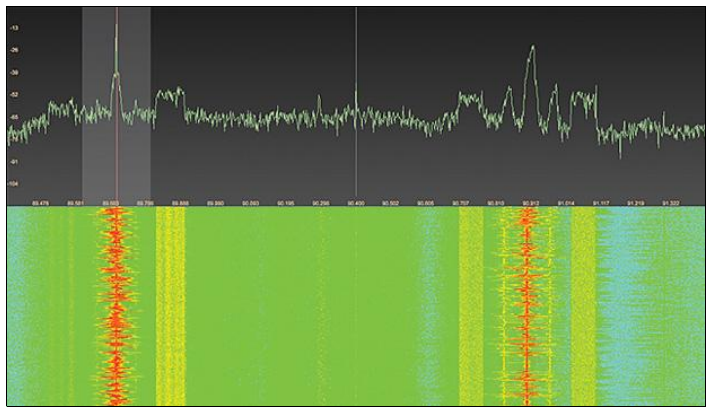
The use of a TV dongle as an SDR receiver is a minor miracle that was made possible by Finnish engineering student and Linux developer [Antti Palosaari](#). Last year, he discovered an unexpected feature of the [RTL2832U](#) demodulator chip made by Taiwan's Realtek: Intended for decoding European HDTV broadcasts in inexpensive USB dongle-type receivers, the RTL2832U chip can also output a raw digital stream describing the amplitude and phase (so-called I/Q data) of signals over a wide range of frequencies.

Digital radio enthusiasts immediately began adapting [open-source tools](#) that can translate I/Q information into audio and data streams. The result is a low-cost SDR that can pick up a huge variety of transmissions with different modulation schemes, including stereo FM from broadcasters, digital data packets from aircraft transponders, and single-sideband modulation (SSB) dispatches from amateur radio operators. Of course, the system isn't as sensitive as purpose-built SDRs and is incapable of transmitting a signal, but it's enough to see what's going on across a huge chunk of spectrum.

To use the receiver, download HSDR or SDR Sharp. Both are freeware and each has a set of unique features. The software centers on an oscilloscope-like display, showing a slice of the radio spectrum (along with a waterfall-type

display beneath that tracks the last 30 seconds or so). The software allows you to set how wide the slice should be, from 1 to 2.4 MHz. You select the frequency that's passed to the software demodulator by clicking the mouse on that frequency in the oscilloscope display. Demodulation modes include AM, narrowband FM, mono and stereo FM, SSB, and continuous wave (used for Morse code). See URL:

http://www.youtube.com/watch?feature=player_embedded&v=CJPjx2_UHyQ



WATCHING RADIO: this screenshot from Gqrx shows two FM stations. The central spikes are the analog stereo broadcast, while the squared-off signals on either side are digital radio transmissions. You can tune in and listen to a station by clicking on its center frequency. The gray stripe indicates the bandwidth of the user-selected software demodulator.

Because the receiver can see so much spectrum at once, you can use it to monitor activity on many channels simultaneously. For example, in Boston, where I live, there are 17 narrowband-FM police channels between 460.025 and 460.500 MHz, covering various districts, et cetera. A spike on the display shows when any of those channels is in use, and a click of the mouse has its audio playing over my speakers.

Now that I've got the basic system up and running, I'd like to extend the bottom of my receiver's range to longer wavelength bands, such as the popular amateur 20-meter band between 14.00 and 14.35 MHz. This will require either modifying the dongle or buying or building a frequency converter.

More Tech Talk

An Inexpensive Noise Filter

If you get reports that you are transmitting very noticeable alternator whine, that you can also hear on receive and when the radio is quiet, you may need a filter to remedy the situation. Here is a first-hand report on an inexpensive option:

The alternator produces AC, which is rectified into DC. The problem is the rectification is not perfect. The DC output will have a small AC signal riding on it. That AC signal will have 9 cycles for each revolution of the alternator. Suppose your engine is idling at 600 RPM and the drive pulley ratio to your alternator is 1:3. At that engine speed your alternator is turning 1800 RPM, which is 30 rotations per second. Each rotation gives you 9 cycles of AC. Do the math and you get a 270 Hz sinusoid (not a perfect sinusoid but close enough). Cruise down the road at 2000 RPM and you get a 900 Hz sinusoid riding on your DC power supply.

Having experienced alternator whine in my new truck, I checked the diodes in the alternator, verified I had good grounds, and I even ran the truck with the alternator removed to be sure that the whine was indeed from the alternator.

I tried an off the shelf filter from Advance Auto. It did very little so I decided to build a filter. The first filter I built worked VERY well. The problem is that not everyone has the tools required to build that filter so I decided to figure out a filter design that could be built in less than an hour by anyone with basic tools, have a cost under \$20, and handle a current of at least 20 Amps.

Parts List:

- 1/2" Quick Link from Lowe's \$2.98
- 6x3x2" project box from Radio Shack \$3.79
- 20' roll 12 gauge red hook up wire from Radio Shack \$4.99
- 4700 uF 35V capacitor from Radio Shack \$5.29
- 18" of black 16 gauge wire
- electrical tape
- GOOP or similar glue
- 3 zip ties

Total cost \$17.05

The 1/2" Quick Link will be used as the inductor core. A fellow ham, Dave KC1LT, suggested using a shackle. I went to get a shackle and came across this quick link. I

went with the quick link to make more efficient use of project box space.

Beginning the winding
Wrap the hook up wire around the closed side of the quick link starting from the left as shown. Leave about 9" of wire free on the left end. Try to keep the winds as close together and tight as possible. On the last layer space the winds so that you have 9" of wire left on the right end. Use all 20' of wire.



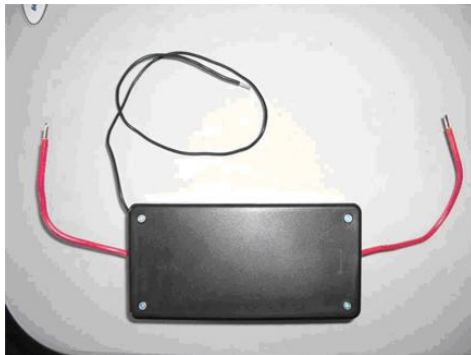
Wrap the coils in electrical tape and close the quick link.

About 1.5" from the right bend of the inductor strip 1/4" of insulation off the red wire and solder in the + lead of the capacitor. Make sure you observe the capacitor polarity. In the picture you can see the negative arrow on the capacitor pointing down. Solder the 18" piece of black wire to the negative lead of the capacitor.



Cover the solder connections and capacitor leads with electrical tape. Drill a 3/16" hole in both ends of the project box for the red wires. Drill an 1/8" hole in one end of the project box for the black wire. Run the wires through the holes. Put a zip tie on each of the three wires to limit how far the wires can be pulled out of the box. Make sure to leave a little slack in the wires inside the box. Using GOOP or some other thick strong adhesive, glue the capacitor and inductor into the project box. Leave the cover off until the glue dries.

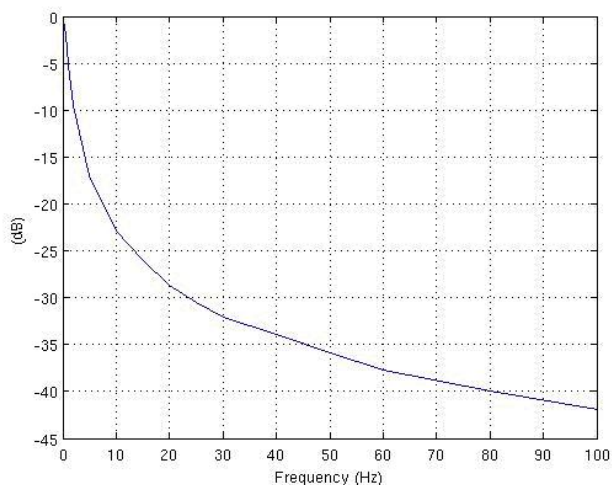
(Continued on page 10)



+12V Side with the capacitor to radio. Black Ground and +12V to battery

Measured Filter Response:

I made this measurement using a low frequency signal



generator and an oscilloscope. At 25 Hz the filter has better than 30 dB of attenuation. In other words for frequencies above 25 Hz the noise power has been knocked down by more than a factor of 1000. I am new to practical electronics. By answering basic questions and making suggestions several folks contributed to this. In particular Dave KC1LT was very helpful. I hope this information is useful. If you use this design to build a filter or if the information presented was useful please send an email to kb1mvx@comcast.net and let me know it was worth the effort to put this together.



Cover the solder connections and capacitor leads with electrical tape.

- Drill a 3/16" hole in both ends of the project box for the red wires.
- Drill an 1/8" hole in one end of the project box for the black wire.
- Run the wires through the holes. Put a zip tie on each of the three wires to limit how far the wires can be pulled out of the box.
- Make sure to leave a little slack in the wires inside the box. Using GOOP or some other thick strong

QSL Card Death...

Like most boys of my generation I had many collections including marbles, comic books, baseball cards, rocks, etc. However, none of these things were as important to me as my QSL cards. I collected cards through Shortwave Listening (SWL) and rummage sales.

I learned a lot from QSL cards. The cards taught me about people, culture and geography. When looking at my cards I saw radio equipment, ham shacks, landmarks, personal interests, etc.

Perhaps it's nostalgic on my part but I hope there will always be a 'paper' QSL card. I say this, because I see hard copy QSL cards going the way of the Dodo bird and the printed newspaper. I understand the need to electronically manage

contacts. Especially for top DXers. I also understand the time and postage savings that are achieved by electronically processing cards. However, my reluctance in giving them up is simply this... We are losing a personal connection with other people.

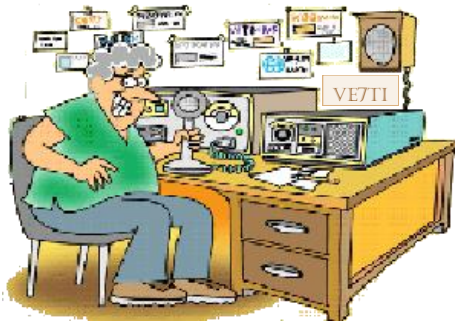
Most hand-written cards usually have a note saying... 'thank you' or better yet... a word of encouragement. As a 'thank you' note, it's an important part of our hobby and it's not something we should give up. It's a personal expression of one's appreciation and caring. Theodore Roosevelt's once said... "No one cares how much you know, until they know how much you care". He was right about that. So, send someone a QSL card with a 'hand-written' note. Who knows, you might brighten their day!

(Anonymous)

The SARC Calendar ...places to be in Surrey for Amateur Radio in the month ahead

September 2013						
Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
1	2	3	4	5	6	7
	For details on all SARC events, go to ve7sar.net For details on all SEPARS events, go to separ.shutterfly.com/calendar				Weekly SARC Breakfast 8:00 ABC Restaurant 74th & King George Blvd.	Langley Good Times Cruise-In and Raffle Draw
8	9	10	11	12	13	14
CN Family Day: SEPAR Display		SEPAR NET 7:30 SARC NET 8:00	SARC Monthly Meeting		Weekly SARC Breakfast 8:00	Contest: Worked All Europe DX (SSB)
15	16	17	18	19	20	21
Contest: Worked All Europe DX (SSB)		SEPAR NET 7:30 SARC NET 8:00			Weekly SARC Breakfast 8:00	
22	23	24	25	26	27	28
Contest: BARTG Sprint (RTTY)		SEPAR NET 7:30 SARC NET 8:00	SARC Exec Meeting		Weekly SARC Breakfast 8:00	Contest: CQ WW RTTY
29	30	1	2	3	4	5
Contest CQ WW RTTY Delta ARS ComFest 2013		SEPAR NET 7:30 SARC NET 8:00			Weekly SARC Breakfast 8:00	

Contest Details: <http://hornucopia.com/contestcal/contestcal.html>



QRM ...from the Editor's shack

*Do you have a photo or bit of club news to share?
Something to sell or something you are looking for?
Email it to SARCcommunicator@outlook.com for inclusion in
this column.*

SEPAR and Surrey Club member Bhim Nair has started in new adventures. A few years ago, the 85-year-old started learning about ham radios, and a few Saturdays ago, he installed a 48-foot tower in the backyard of his Murrayville home.

The home itself is another adventure. Nair and his wife Pushpa sold their Surrey home and built a new bigger home on a 70-acre site in Langley Township, moving in last autumn. The yard is festooned with 200 rose plants from Langley's Select Roses, a tribute to his wife. "My wife, she loves the flowers," he said of the woman he's been married to for 62 years.

Nair said helping others and keeping active are the keys to his healthy life but relentless curiosity and optimism must also surely play roles. "My health is good because I always work outside," he added.

Nair joined the Langley Amateur Radio Club and found a new hobby that allows the outgoing senior to indulge his love of people. "We'll have a station," Nair said. "We can communicate all over the world." Read the rest of the article at URL: <http://www.langleyadvance.com/news/the-new-face-of-aging-1.582091#sthash.1BESEiZi.dpuf>



Tom Epperly's Collection of Ham Radio-Related Tools

Use the form on the link below to create a high quality azimuthal map for any location on the globe. You can customize the map in a variety of ways by changing the options in the web form.

The location can be a latitude, longitude, a Maidenhead grid square, or a city name (e.g., "51.504572,-0.268225", "IO91um", or "Chicago, IL"). You can indicate North and East coordinates by using a positive number or by adding "N" or "E" after the number. For South and West, you can indicate these with a negative number or by adding "S" or "W" after the number. A Maidenhead grid specification must have two upper case letters followed by two digits and then optionally two lower case letters. For big cities, you can enter just the city name. For other cities, enter the city and state for US cities and otherwise the city and country. The distance is in kilometers. More information on the program is available at URL: <http://ns6t.net/azimuth/azimuth.html>

Email or Download Link?

The Summer Communicator was a BIG one. With all the Field Day photos and other graphic content it was a whopping 8 Mb PDF file. Some eMail providers do not support large attachments and a few of the emails sent out with that issue were returned as undeliverable.

The solution was to upload it to our web server. SARC Webmaster Hiu Yee did so and the private link was emailed to the membership, so those who had not received it could download it themselves. Same result, different process.

The Editor received feedback from several of you that you found this to be the preferable means of receiving the Communicator. Some of you use portable devices to check your email and that meant multiple downloads for a large file. So, we are asking for feedback. Would you prefer to be emailed a link that you can click on to download the PDF Communicator or remain with an email attachment.

We'll ask the question at the next SARC meeting, or email SARCcommunicator@outlook.com with your preference.



Page 13—News You Can Lose

The Lighter Side of Amateur Radio

Do You Remember?

Radio Shack Catalog Circa 1965

Sign Seen at a Ham Shack...

ACHTUNG!

Alles turisten und nonteknischen
lookenpeepers!

Das radiomaschine ist nicht für der
gefingerpoken und mittengraben!
Oderwise ist easy to schnappen der
springenwerk, blowenfusen und
poppencorken mit spitzensparksen.

Ist nicht für gewerken bei dummkopfen.
Der rubbernecken sightseeren keepen das
cottonpicken händler in das pockets muss.

Zo relaxen und watschen der
blinkenlichten.

The SARC Website is Popular!

Our webmaster Hiu Yee obtained the visitors and hits figures from our web provider and provided them to the Communicator.

It also lists the value of our web at \$884,301.00 USD, which is, of course, ridiculous. (Perhaps we should cash in and our whole membership can retire—Ed)

Monthly history



Jan 2013 Feb 2013 Mar 2013 Apr 2013 May 2013 Jun 2013 Jul 2013 Aug 2013 Sep 2013 Oct 2013 Nov 2013 Dec 2013

Month	Unique visitors	Number of visits	Pages	Hits	Bandwidth
Jan 2013	459	760	2765	18630	1.14 GB
Feb 2013	482	775	2367	16780	1.19 GB
Mar 2013	576	907	2965	19302	1.35 GB
Apr 2013	563	876	2069	17326	1.24 GB
May 2013	598	976	2830	27819	2.73 GB
Jun 2013	311	495	1132	9168	813.22 MB
Jul 2013	0	0	0	0	0
Aug 2013	0	0	0	0	0
Sep 2013	0	0	0	0	0
Oct 2013	0	0	0	0	0
Nov 2013	0	0	0	0	0
Dec 2013	0	0	0	0	0
Total	2989	4789	14128	109025	8.44 GB

Roam the World Via Shortwave!

Hallicrafters Model S-120 4-Band Receiver
69⁹⁵ \$10 monthly

First Choice of novice hams and shortwave listeners. Tunes 3 SW bands from 1600 kc to 30 mc, regular AM radio from 550 to 1600 kc! With electrical bandspread, B.F.O./selectivity control, built-in speaker, headphone jack. 4 tubes, 1 rectifier. 13 1/2 x 6 x 8 3/4". 20K805X, Sh. wt. 2 lbs. ... \$10 Mo., Net 69.95

HT-40 Transmitter Kit
89⁹⁵ Kit \$10 Mo.

Excellent CW/AM transmitter, top performance! Full band switching, 80 through 6 meters. TVI filtered, crystal controlled, Pi-network output. Dual range meter for tuning and output adjustments, built-in modulator. Max. power input: 75 watts; power output 35 watts CW, 30 watts peak AM. Provisions for external V.F.O. 117 VAC, 50/60 cy. 13 3/4 x 8 1/4 x 6 3/4". 20KK806X, Kit, 19 lbs. \$10 Mo., 89.95 20KK802X, Wired, 19 lbs. \$15 Mo., 109.95

Hallicrafters 5-Band Receiver
99⁹⁵ \$10 Mo.

• Tunes 185 KC to 31 MC!
• Extended Low-Freq. Reception!

The Hallicrafters S-118 provides coverage of aircraft, mobile, marine and distress frequencies as well as standard broadcast, amateur and international shortwave bands. Automatic noise limiter, electrical bandspread, phono input/audio output jack, B.F.O., 2 I.F. stages, built-in speaker and headphone jack. Use 5 tubes, 2 silicon diodes. 117 VAC, 60 cy. 20K799X, 14 1/2 x 6 x 8 1/2", Ship. wt. 19 lbs. Net 99.95

New! SWR And Field Strength Meter
12⁹⁵

Measures SWR Forward and Reflected Power Up to 1KW Reads Field Strength

Checks SWR measurements for both amateur and CB transmitters. SWR 1:1 to 1:10, accuracy ±5% 2-30 MCS. Impedance 52 Ω. Five-section collapsible antenna, 2" 100µa sensitive meter movement for checking both SWR and field strength. Can be left continuously in the circuit for monitoring transmitter outputs. Determines comparative field strengths. Impedance matches 52 Ω coaxial line. With instructions. Size: 6 x 2 x 2 1/4". 20K013, Ship. wt. 1 lb. Net 12.95

Transmitting and Practice Key Values

A SKILLMAN SPEED-MASTER BUG. Provides 8 separate tension and speed adjustments. Plastic cover. 20K1014, Ship. wt. 5 1/2 lbs. ... Net 9.95

B SKILLMAN HIGH SPEED KEY. Brass key action is fully adjustable. With silver contacts and circuit switch. An unbelievable value at this price! 20K1084, Ship. wt. 1 1/2 lbs. ... Net 1.95

C CODE PRACTICE BUZZER. Runs on 1 1/2 V battery. Clear, steady signal. 20K1086, Ship. wt. 1/2 lb. ... Net .79

D SKILLMAN KEY. Smooth action, best for beginners. Rugged construction. 20K1085, Ship. wt. 1/4 lb. ... Net .69

E CODE PRACTICE SET. Key, buzzer. 20K1087, Ship. wt. 1 1/2 lbs. Net 1.79

23K466, Battery for Above ... Net .15

Transistorized Code Oscillator
98^c

• Matchbook Size!
• Fully Wired!
• Clear, Crisp Tone!

Connects quickly to telegraph key, 1 1/2 volt battery and FM speaker. Ideal receiver/send practice, with excellent CW tone. Incl. instructions. 20K1155, Ship. wt. 1/4 lb. Net .98

International Morse Code Record Course
3⁷⁵

• Up To 15 Words Per Minute!
• 10 Lessons!
• One 12" LP

Full course of 10 lessons on a single, non-breakable 33-1/3 record. Recorded with code sound. Speed progresses steadily. With instructions. 20K010, Wt. 1 lb. Net 3.75

Code Practice Oscillator
8⁹⁵ KIT

• Learn Morse Code Easily!

Excellent for group or individual use. Separate pitch, tone, light controls; built-in speaker; phone jack. Produces clean, loud signal. Tone freq. range 500-2000 cps. continuously variable. With battery. Size: 6 1/2 x 3 1/4 x 2 3/4". 20K646, Kit, Wt. 2 lbs. Net 8.95 20K647, Wired, Wt. 2 lbs. Net 12.95

Grid-Dip Meter Kit
29⁹⁵

• True One-Hand Operation!
• Includes All Coils For Frequency 400Kc-250 Mcs

This versatile instrument covers all broadcast, FM, "ham", TV bands. Precision 500-microampere meter movement. Functions as a grid dip oscillator, absorption wave meter and oscillating detector. Uses 6AR4A tube powered by transformer-operated selenium rectifier. 117 VAC, 60 cy. 20KK644, 2 1/4 x 2 1/2 x 7", 4 lbs., Net 29.95

80

Now There Are 36 COMPANY-OWNED Radio Shack Electronic Shopping Centers

The following are some additional links that may be of interest.

<http://valuethesite.org/w/ve7sar.net> (Estimated Worth \$159)

<http://www.statscrop.com/www/ve7sar.net>

<http://doowebrank.com/www/ve7sar.net> (Estimated Worth \$884,301.00)

<http://urlm.co/www.ve7sar.net> (Estimated Worth \$765.06)

<http://statsie.com/ve7sar.net> (Estimated Worth \$137)



SEPAR Report

SEPAR - Upcoming Events

The Langley Good Times Cruise-in

(Also see page 15)

To date there are only six SEPAR members that have signed up for the event. Fund raising is a part of what we need to do to continue as an emergency response organization - please do your part.

CN Family Day

CN Rail Family Day is a fun event for SEPAR members and at the same time we interact with CN Employees to explain what we do and who we are.

Emergency preparedness information is usually handed out and starts discussions with CN Employees.

As an aside we are provided with a great lunch, some snacks and railway coffee. A BC South CN Family Days t-

shirt is given to each volunteer and you have an opportunity to enter into a prize draw.

The SEPAR trailer will be on site for this event.

Please advise me of your availability asap for planning purposes. We should have at least 6 people to allow for breaks.

Details as follows:

CN Family Days

8 Sep, 2013 (Sun), 9:00am to 5:00pm

CN Rail Yards - Motive Power Shop Building

11717 138th Street, Surrey BC

This years' event will be held at the Motive Power Shop Building located at 11717 138th Street, Surrey BC, from 1100 am to 1600 pm. Set-up from 0700-1000 am.



If any of you have ever travelled to Oregon, California or Nevada, you may know of the In-N-Out burger chain. All outlets are company owned, employees are well paid, they use only fresh ingredients and

their food is inexpensive and delicious.

There won't be an In-N-Out Burger Vancouver fast food location anytime soon. However, for one day and one day only you can chow down on those delicious burgers without having to travel a great distance at the annual Langley Good Times Cruise for charity on September 7, 2013.

The U.S. fast food chain will cross the border once again for this wonderful cause. This is their fifth time participating at the Langley Good Times Cruise.

Last year close to 1,500 In-N-Out burgers were consumed on the single day event in Langley. The popular American burger will be flipping burgers and serving them up as fast as they can. All proceeds plus their sponsorship fee will go charity.

The lineups will be long and they may run out but for many burger lovers it's worth the gamble.

SEPAR Meetings

Third Thursday of each month starting at 1900 hrs

Fourth Saturday of each month starting at 0900 hrs

Location and event schedule can be found at separ.shutterfly.com – click on the calendar tab



LANGLEY GOOD TIMES CRUISE-IN

Next Langley Good Times Cruise-In is Saturday,
September 7th, 2013

The Langley Good Times Cruise-in will be held on Saturday Sept. 7th. Last Year we had one booth where, along with LARA and SEPAR, we sold raffle tickets and promoted our organizations.

The Cruise-in is a huge car show with hundreds of vintage cars and thousands of people milling about to take in the event, so it's a great opportunity for us to showcase ham radio.



This year for the first time, we have a significant communications role to play. We have been promised 4 strategically-located booths not only to sell raffle tickets and promote our respective or-

ganizations but also to provide radio communication in conjunction with the security and emergency services and event organizers. Those members who have handheld radios will need to bring them but even if not, you can contribute by representing the club and selling tickets.

You might be wondering how and where volunteers will park. We'll have about 10 PARKING PASSES to share with LARA and SEPARS. In addition, Anton VE7SSD will make several parking places available at his Langley offices, which are close by. So parking should be no problem.

We're looking for at least 12 volunteers from SARC and SEPARS. This is our only fund-raising event of the year, and it's combined with a unique opportunity to show what amateur radio has to offer as a community service.

Please do your part by:

- Getting a book of tickets and selling them. Any members who do not already have raffle tickets should get in touch with me.
- Returning the cash and stubs to me well before Sept. 7th when the draw will be held.

- Contacting me if you can give a few hours to help out SARC and SEPARS at one of the 4 booths.

We need your support to sell these tickets! They will be available by contacting John Brodie, VA7XB.

The prizes this year are:

1. A \$500 gift certificate to the world famous Harrison Hot Springs Resort plus two complimentary bathrobes;
2. A 1/2-hour scenic flight from the Langley Airport in the aircraft shown (value \$100); and
3. A Bluetooth earpiece for your personal electronic device (value \$75).

Hey, who wouldn't want to win one of those prizes, and the odds are certainly better than the lotto! Buy a book of 10 tickets and give them away to your friends... they'll owe you big-time if they win.

For more information on the Cruise-in visit URL www.langleycruise-in.com and, by the way, good luck.



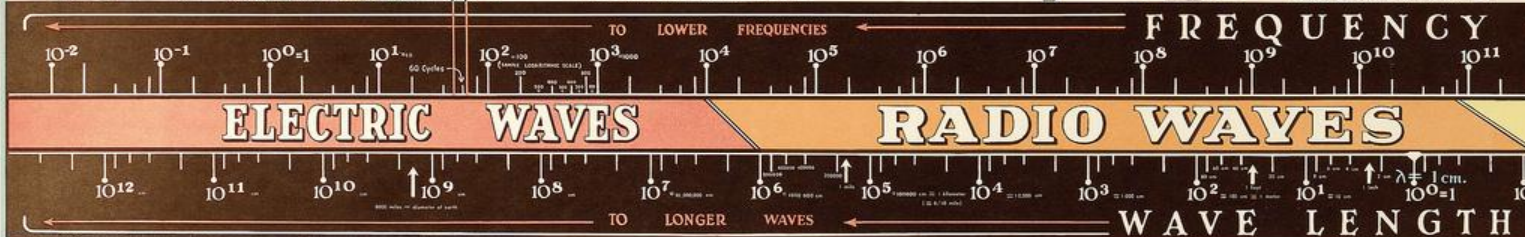
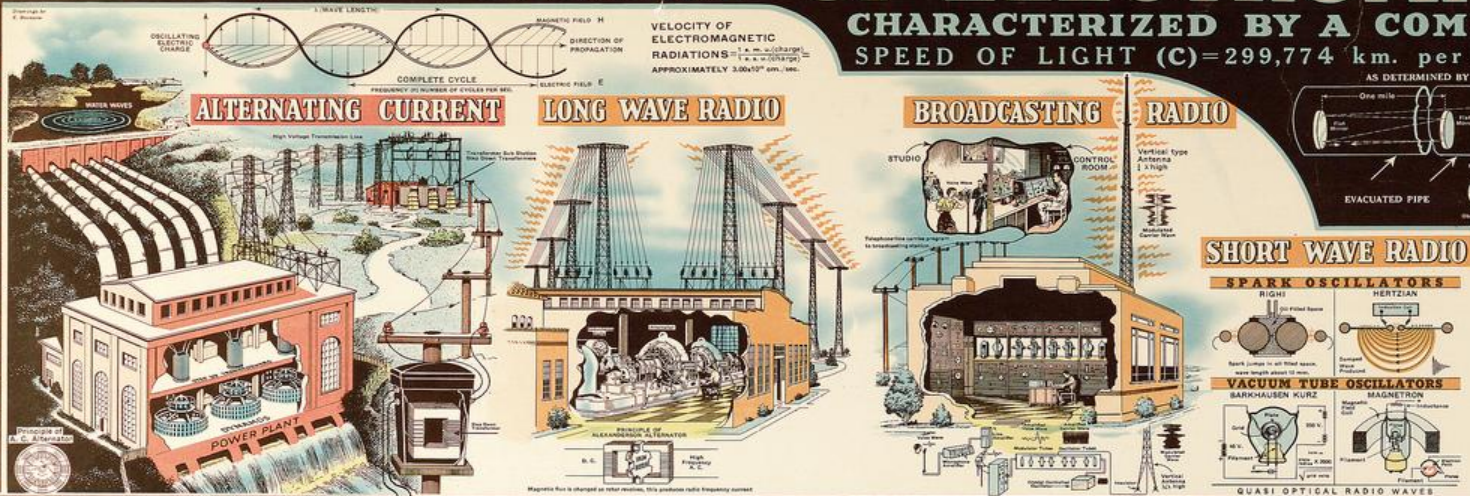
$$\text{VELOCITY} = \text{FREQUENCY} \times \text{WAVE LENGTH}$$

$$V = n \times \lambda$$

CHART OF ELECTROMAGNETIC

CHARACTERIZED BY A COMBINATION OF FREQUENCY AND WAVE LENGTH
SPEED OF LIGHT (C) = 299,774 km. per sec.

EMITTERS



METHOD OF MEASURING THE WAVE LENGTH

WAVE CHARACTERISTICS

REFLECTION

LAW OF REFLECTION
Angle of incidence = Angle of reflection

CONCAVE AND CONVEX MIRRORS
Concave mirror produces virtual image when object is very close to mirror.

REFRACTION

DUE TO CHANGE IN VELOCITY OF WAVE ON ENTERING NEW MEDIUM
Wave length decreases in denser medium as velocity. For light entering glass or water etc. the wave length (λ) slows down less than short waves (blue). Produces dispersion of light.

DIFFRACTION

OCCURS WHEN WAVE FRONT ENCOUNTERS AN OBSTACLE; CRUCIAL TEST FOR WAVES
The smaller the opening and the larger the wave length of wave the larger the amount of bending of wave around the obstacle.

INTERFERENCE

PRODUCED BY TWO WAVES OF SAME VELOCITY AND WAVE LENGTH TRAVELING IN OPPOSITE DIRECTIONS
INTERFEROMETER

POLARIZATION

POLARIZATION BY REFLECTION
This is proof that they are transverse waves. Unpolarized light has its vibration in every direction. The polarizing apparatus selects out of this multitude of directions some particular ones.

DOPPLER'S PRINCIPLE

CHANGE IN FREQUENCY AND WAVE LENGTH DUE TO MOTION OF SOURCE OR MOTION OF OBSERVER
DOPPLER EFFECT DUE TO MOTION OF THE SUN

RADIO SPECTRUM: FREQUENCY and WAVE LENGTH ALLOCATIONS

Service	Frequency Range (kHz)	Wave Length Range (m)
Maritime	1600 - 1700	177 - 177.4
Radio Beacon	2000 - 4000	75 - 37.5
Aeronautics	11.8 - 13.6	25.5 - 22.0
Direction Finding	1.6 - 1.9	187.5 - 157.9
Broadcasting	540 - 1600	556 - 187.5
Police	27.12 - 27.18	11000 - 10995
Amateur	3.5 - 30	85.7 - 10
Television	54 - 88	5.6 - 3.4

Revised Radio allocations will be found in the "Key" to this chart

ALL WAVE RECEIVER (Wave bands changed by plug-in coils)

Components: Antenna, Tuning Knob, Frequency Indicator, Detector, Amplifier, Speaker.

TELEVISION RECEIVER

Components: Antenna, Tuning Knob, Frequency Indicator, Detector, Amplifier, Speaker.

RADIO TUNED CIRCUIT

Wave tuned circuits in receiver at the left. Variable Capacity (C) and Inductance (L) are shown. Resonance curve is plotted.

DETECTORS OF RADIO WAVES

Detector Type	Components
NEETS RESONATOR	LAMP INDICATOR, COIL, CONDENSER
CRYSTAL DETECTORS	CRYSTAL, CONDENSER, COIL
DIODE	DIODE, CONDENSER, COIL
ONE TUBE CIRCUITS	ONE TUBE, CONDENSER, COIL
TIODE	TIODE, CONDENSER, COIL
TETRODE	TETRODE, CONDENSER, COIL
PENTODE	PENTODE, CONDENSER, COIL

PARTICLES HAVE WAVE CHARACTERISTICS

Apparatus for diffraction of electrons. Shows diffraction of protons, atoms, molecules, and other particles.

RADIO CHARACTERISTICS

REFLECTION OF RADIO

Diagram showing reflection of radio waves from a surface.

REFRACTION OF RADIO

Diagram showing refraction of radio waves through a medium.

POLARIZATION OF RADIO

Diagram showing polarization of radio waves.

INTERFERENCE OF RADIO

Diagram showing interference of radio waves.

MEASURING WAVE LENGTH WITH LECHER WIRES

Diagram showing the use of Lecher wires to measure wave length.

CONCEPTS OF LENGTH, MASS AND TIME

Tables for C.G.S. Units of centimeter - gram - second.

LENGTH

Table of length units: 1 meter = 100 cm, 1 km = 1000 m, etc.

MASS

Table of mass units: 1 gram = 1000 mg, 1 kg = 1000 g, etc.

TIME

Table of time units: 1 minute = 60 seconds, 1 hour = 60 minutes, etc.



RAC News Radio Amateurs of Canada

RAC Bulletin 2013-026E - 2013 Simulated Emergency Test (SET) October 19, 2013

This year's SET is now scheduled for October 19, 2013 due to a conflict with Thanksgiving on October 12. Please visit the RAC website for details.

A reminder that groups are encouraged to hold their SET on any weekend that is convenient.

RAC Bulletin 2013-025E - New RAC Corporate Secretary Alvin (Al) M. Masse, VE3CWP

I want to welcome Alvin Masse, VE3CWP, as RAC's new Corporate Secretary. Al comes to us with a wealth of organizational skills, history and wisdom and will be a great benefit to RAC. I am looking forward to working with Al. You can find out more information about Al in the short bio he provided below.

I want to thank Linda Friars, VE9GLF, for serving as Acting Corporate Secretary and also Paul Burggraaf, VO1PRB, for all his support.

Possibly Canada's Youngest Amateur Radio Operator

On June 17, 2013 a group of new Amateur Radio operators joined the ranks of Canadian Amateurs. Here is the part of the local newspaper article as sent RACNEWS by Peter Wotherspoon, VE3GYY.

**Seven new people, from Peterborough,
will be causing the ether to wiggle.**

A group of aspiring radio amateur operators have just graduated in the heady realm of the ranks of amateur radio operators. Included in this plucky group was a ten-year-old girl who achieved honours ranking on the exam. In March, Miss Eilis (AY-lish) Isobel Wotherspoon started the course, offered gratis by the Peterborough Amateur Radio Club (VE3RB), and upon completing it, wrote the exam this past Monday evening, June the 17th. Eilis may currently be the youngest amateur radio operator in Canada. Eilis plays piano, guitar, and ukulele, reads voraciously, plays computer games with her brother Lochlan, loves swimming, filming and editing home movies, and jumping on the trampoline; that is to say, she's an average 10-year old. Coincidentally, her mother, Melissa Wotherspoon, also achieved honours standing on the exam.

Eilis' milestone will open many portals for her and will be an adventure full of challenges, excitement, and importantly, lots of fun.

RAC Bulletin 2013-027E - Bulletin Concerning the DX Advisory Committee

ATTENTION CANADIAN DXERS

You may have read in QST or elsewhere that the ARRL Board has directed the DX Advisory Committee (DXAC) to do a comprehensive review of the DXCC Rules. This has not been done for at least ten years.

As your representative on the DXAC I need to hear your views about the rules for the DXCC. We know there will be discussions about remotely controlled stations. These are going on as I write.

Please advise me ASAP at the email address below of anything in the DXCC rules that concerns you. I will do my best to bring your concerns to the attention of the rest of the committee.

It sure would be nice if we could get together for a chat, but that won't happen. Your comments to me will have to suffice. Please feel free to pass this message on to others in Canada.

Thanks in advance for your comments.

RAC Bulletin 2013-021E - Power Line Interference Contact Information

Industry Canada has just posted contact information to report Power Line Radio Interference. This information covers all the major Power Line companies in Canada. The posting can be found at URL: <http://www.ic.gc.ca/eic/site/smt-gst.nsf/eng/sf10641.html>. The information is provided with the cooperation of the Canadian Electricity Association and its member power utilities. Radio Amateurs in Canada are encouraged to use this contact and reporting information when confronted with suspect power line interference. Radio Amateurs of Canada is pleased to see the release of this information which is the culmination of ongoing discussion at meetings of the Canadian Amateur Radio Advisory Board (CARAB) between RAC and Industry Canada.

Ham Radio: Helping to Build a Fast and Free Internet

San Francisco hackerspace, [Noisebridge](#), is making an alternative network modeled after the Internet that would provide high-speed connectivity for a fraction of the cost of traditional internet service.

Noisebridge is working on this project using commodity Wi-Fi equipment that's been modified to work under amateur radio frequencies. The FCC grants experimenters spectrum space to build high power, long range radio systems. Through this provision, Noisebridge has begun building the HInternet (a combination of "Ham Radio" and "Internet").

As one enthusiast explains, "You can run any application you could run over the Internet, the difference is you don't need any wires. Everything is done through radio links. In the event of a major disaster, you wouldn't have to worry about downed lines or earthquake damage to

underground equipment — the network would naturally reform itself, routing around failures."

The idea to create the HInternet was triggered by the realization that there was a lot of open IP space allocated to amateur radio that was not in use. Aside from the benefits this system could provide in natural disaster, the HInternet is driven by the belief in freedom and open access to the Internet. The United States is debating a bill to create an Internet kill switch, also known as the [PCNAA bill](#). For true redundancy, a [non-critical network](#) such as the HInternet is being built to avoid this single point of failure.

The HInternet project is looking for volunteers to help them test and build the network. If you're interested in learning more, they are holding a variety of information sessions this Fall. Visit their [website](#) for more information.

The (Chinese) Radio Documentation Project

The Chinese have been flooding the market with inexpensive handheld transceivers, and we think that's a good thing! More cheap communication gear to the people!

However, there is one thing that these cheap Chinese radios lack - proper documentation.

Most of these radios come delivered with a single sheet manual printed on toilet paper. The language is sub-par, the information lacking, and perhaps worst of all: The little information that is there, isn't even always accurate. Some times it's downright misleading. This is where we come in. We aim to bring you the User Manual that these radios Need, and most importantly, the User Manuals that you deserve.

Delta ComFest 2013

Presented by the Delta Amateur Radio Society, the event is quickly approaching. We are currently taking table reservations. Tables are \$25 with an early bird special of \$20 if reserved and paid by September 7, 2013

This year the Lions Society will be holding a pancake breakfast starting around 8 am. Come early and enjoy a breakfast.

Reserving a table is easy, just email gdick@telus.net to reserve a table

It's been a long process, but we're finally here. Version 1.0 of the Baofeng UV-5R user manual by The (Chinese) Radio Documentation Project is now available for download, in PDF formats optimized for print, and one optimized for iPad, as well as other electronic reading devices.

Other formats such as Kindle, EPUB and online HTML will have to wait for when we develop the tool chains needed to produce them. Be assured that they will be coming however.

Baofeng UV-5R user manual: [Go get it!](#) »

Those of you using the IRLP or Echolink nodes should be aware that we have encountered some occasional failures with received audio when using the VHF repeater. That is, the other party will hear your audio, but their audio coming back will be extremely low in volume and may be distorted.

If you have UHF capability, please use our UHF repeater on 443.775+ MHz (110.9 Hz tone) to access the nodes. Connectivity to the Internet using the UHF repeater is working well.

If you have only VHF capability and find that you cannot hear the other party, please (1) advise us of the issue by emailing ve7qh@shaw.ca and (2) consider using an alternate node to make your call.



The Contest Contender

John Brodie VA7XB

Accuracy in Contesting – a Lesson Learned

It's Sunday afternoon, the CQ WPX CW contest is nearly over, with only 20 minutes to go. I'm tired and ready to shut down the station for the weekend. Over the last two days, Brett VE7GM and I had been working the contest to improve our CW in readiness for Field Day.

We had made some interesting contacts but nothing to brag about. It's hard work when your CW comfort speed is 20 WPM and most others are sending at 25-40 WPM. Ok says John, let's give it one more tune around on 15 m before calling it quits.

Wait a minute, what's this? D3AA (Angola) at 21034 MHz calling CQ with actual signal about 469, and no one answering. Well, the reason is probably that he's not showing up on the cluster and the serious contesters are working the spots to get their missing multipliers. I point the beam to his azimuth and call him, getting a response first

try. Hey, that's satisfying because southern Africa is a challenge from here.

I enter his exchange as 5nn 1397 but with QRM think I may have gotten it wrong. No problem, he's strong enough that I can wait for his next contact exchange and subtract a single digit from the serial number to confirm my copy. He continues to call CQ with not a single response, then disappears with 5 minutes to go.

The contest ends and I'm still unsure of the exchange. The contact is probably invalid because I didn't ask for a repeat to confirm what I thought I heard. Don't let this happen to you - ask for fills until you are sure you have it right and don't expect to repair the log afterwards. Grrrr!

British Columbia QSO Party 2013

an **Orca** event

VA7XB

(+ VA7CHX VA7JMR VE7KGG)

Score: 35,440

**First Place ~ BC Station
Multi-Operator Low-Power SSB**

Photo: Back country, east of Harrison Hot Springs
by VA7REC

President - Dave Johnson VE7VR
Contest coordinator - Rebecca Kimoto VA7REC



HAMNation

**NOW ON
WEDNESDAY!**

TWIT (This Week in Technology) presents
a weekly HD video webcast about Ham Radio.

Hosted by Leo Laporte W6TWT, Bob Heil K9EID, and Gordon West WB6NOA
with George Thomas W5JDX covering 'Smoke and Solder'.

Recorded live each Wednesday night 8 PM CDT at live.twit.tv
All programs archived at twit.tv/hn

Join us each Wednesday and don't miss seeing the first episode with special
guest Joe Walsh WB6ACU, who wrote and plays the theme music for
HAMNation.

Help us spread the word about HAMNation.